



SMACH turns smart in any motor.

SMARTITECHNOLOGY

Universal Inverter Driver



SMACH CO,.Ltd.

Packed with SMACH's technologies! Motor Driver that "CAN" drive variety of motors

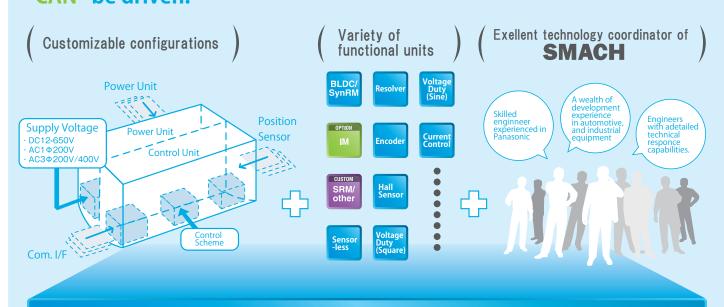
"Universal Inverter Driver" is a motor driver of new ideas packed with SMACH's technologies.

Customizable configurations have made it possible to drive a variety of motors. With short delivery time and low cost, SMACH can provide a motor driver that meets each customer's needs.

For customization, SMACH's technical coordinators will provide finely tuned support services for even advanced development requests. With detailed parameter settings, SMACH has received high reputation from the professionals of motor driving technologies.

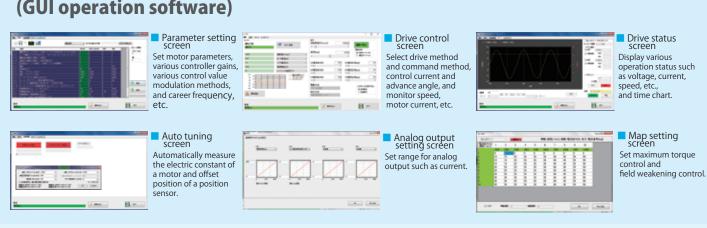


With the customizable configurations, a variety of motors "CAN" be driven.



Variety of motors be driven for a low development cost and short delivery time

Engineers with little experience in motor driving technologies "CAN" use S2C (GUI operation software)



Specifications of PC Software "S2C"

- Set sensor parameters (such as encoder pulse count), set motor parameter (such as number of poles, R, L, \(\phi s), set various limit levels (such as current, voltage, number of rotations), switch control methods (such as current vector control), switch command methods (such as current command, number of rotation command, and duty command), and set advance angle values.
- The PC software "S2C" communicates with an inverter through RS-232C. The communications can be customized to meet customer's needs.
- The optional operation board can be selected instead of the "S2C" Inverter parallel operation using CAN or RS-485 or RS-422 is also available.

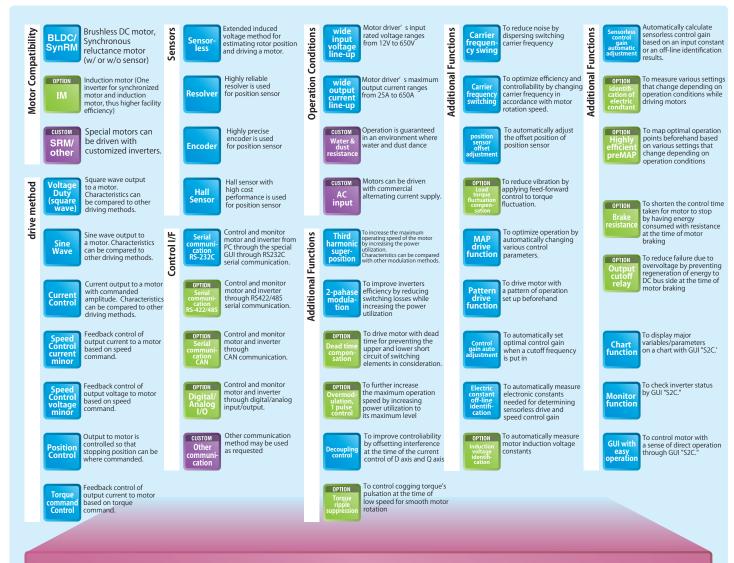
Customizable functional units "CAN" expand drive fields



SPM

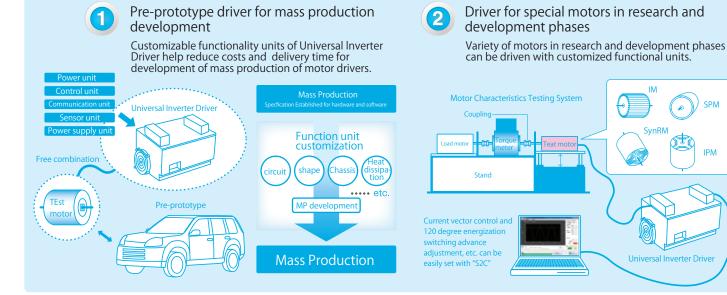
IPM

Universal Inverter Drive

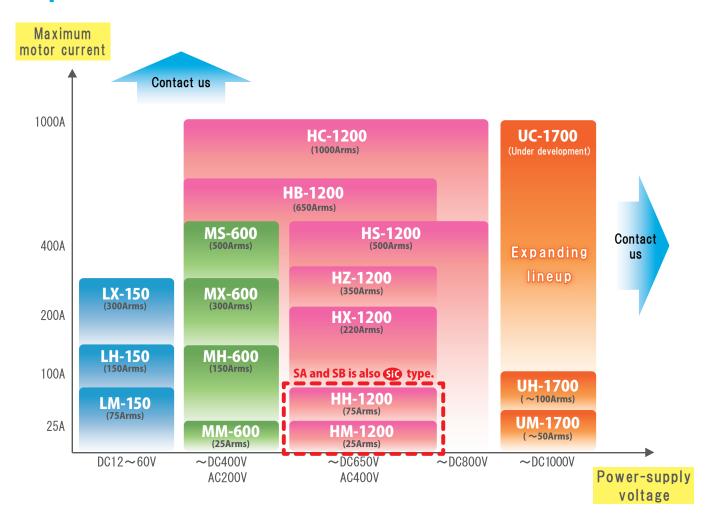


SMACH's flexible technical capabilities "CAN" satisfy new custom needs evolving with time and trend





Specifications of Universal Inverter Drivers



Specifications																		
Body series	L-series (Low-voltage)			M-series (Medium-voltage)			H-series (High-voltage)						U-series (Ultra high-voltage)		SiC-series			
Model name	LM-150	LH-150	LX-150	MM-600	MH-600	MX-600	MS-600	HM-1200	HH-1200	HX-1200	HZ-1200	HB-1200	HS-1200	HC-1200	UM-1700	UH-1700	SA	SB
Power-supply voltage	voltage DC12V ~ 60V DC60V ~ 400V				DC300V ~ 650V				DC300V ~ 800V		DC400V~1000V		DC100V ~ 650V					
Maximum notor current	75A	150A	300A	25A	150A	300A	500A	25A	75A	220A	350A	650A	500A	1000A	50A	100A	50A	100A
Cooling method	Forced air cooling			Forced air cooling Wate			Water cooling	Forced air cooling			Water cooling				Forced air cooling		Forced air cooling	

● Adopted for the Inspection Line of EV motor factory. ● Obtained CE marking. We support export to overseas.

Inverter Driving System	Current vector control voltage control (square wave, sine wave)	Driving Motor	Permanent Magnet Synchronous Motor(IPM, SPM) , SynRM, SRM and Induction motor				
Interface	Communication:RS232C, RS422, RS485, CAN, Ethernet(HC)		• Resolver				
interrace	Command by external signal	Rotor angle sensor	EncoderHall Sensor*Sensorless drive is also possible.				
Protective Function	Overvoltage • Over current • heating • Overturn, etc.	301301					

*Specifications, etc. are subject to change without notice.

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